

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Complete if Known</i>	
				Application Number	10/696,708
				Filing Date	30 October 2003
				First Named Inventor	Mark T. KEATING et al.
				Group Art Unit	1636
				Examiner Name	
Sheet	1	of	4	Attorney Docket Number	2323-164

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
CD	AA	5,599,673		Keating et al.	02-04-1997


FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³ Code	Number ⁴	Kind ⁵ (if known)			

Examiner Signature		Date Considered	4/13/06
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

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NON PATENT LITERATURE DOCUMENTS					
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cc	AB	Ackerman, M.J., M.D., Ph.D., "The Long QT Syndrome: Ion Channel Diseases of the Heart", <i>Mayo Clin. Proc.</i> 1998; 73:250-269			
	AC	Akimoto, K., et al., "Novel Missense Mutation (G601S) of HERG in a Japanese Long QT Syndrome Family", <i>HUMAN MUTATION</i> Supplement 1998; 1:S184-S186			
	AD	Babij, P., et al., "Inhibition of Cardiac Delayed Rectifier K ⁺ Current by Overexpression of the Long-QT Syndrome HERG G628S Mutation in Transgenic Mice", <i>Circ. Res.</i> 1998; 83(6):668-678			
	AE	Benson, D., et al., "Missense Mutation in the Pore Region of HERG Causes Familial Long QT Syndrome", <i>Circulation</i> May 15, 1996; 93(10):1791-1795			
	AF	Curran, M., et al., "A Molecular Basis for Cardiac Arrhythmia: HERG Mutations Cause Long QT Syndrome", <i>Cell</i> March 10, 1995; 80:795-803.			
	AG	Dausse, E., et al., "A mutation in HERG Associated with Notched T Waves in Long QT Syndrome", <i>J. Mol. Cell Cardiol.</i> 1996; 28:1609-1615			
	AH	Fung, D., et al., "RsaI and Mael intragenic RFLPs in the human HERG gene", <i>Clin. Genet.</i> 1998; 53:504			
	AI	Itoh, T., et al., "Genomic organization and mutational analysis of HERG, a gene responsible for familial long QT syndrome", <i>Hum. Genet.</i> 1998; 103:290-294			
	BA	Janse, M.J. and Wilde, A.A.M., "Molecular Mechanisms of Arrhythmias", <i>Rev. Port. Cardiol.</i> 1998; 17(Supl. II):41-46			
	BB	Jiang, C., et al., "Two long QT syndrome loci map to chromosomes 3 and 7 with evidence for further heterogeneity", <i>Nature Genetics</i> October 1994; 8:141-147			
	BC	Keating, M.T., MD, "Genetic Approaches to Cardiovascular Disease Supravalvular Aortic Stenosis, Williams Syndrome, and Long-QT Syndrome", <i>Circulation</i> 1995; 92(1):142-147			
	BD	Keating, M.T., "The Long QT Syndrome A Review of Recent Molecular Genetic and Physiologic Discoveries", <i>Medicine</i> 1996; 75(1):1-5			
	BE	Kupershmidt, S., et al., "A K ⁺ Channel Splice Variant Common in Human Heart Lacks a C-terminal Domain Required for Expression of Rapidly Activating Delayed Rectifier Current", <i>J. Biol. Chem.</i> Oct. 16, 1998 273(42):27231-27235			
✓	BF	Lazzara, R., "Mechanisms and management of congenital and acquired long QT syndromes", <i>Arch. Mal. Coeur Vass.</i> 1996; 89 (Spec. No. 1)51-55			
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CQ	BH	Locati, E.H., et al., "Age- and Sex-Related Differences in Clinical Manifestations in Patients With Congenital Long-QT Syndrome", <i>Circulation</i> June 9, 1998; 97(22):2237-2244			
	BI	London, B., et al., "Two Isoforms of the Mouse <i>Ether-a-go-go</i> -Related Gene Coassemble to Form Channels With Properties Similar to the Rapidly Activating Component of the Cardiac Delayed Rectifier K ⁺ Current", <i>Circ. Res.</i> Nov. 1997; 81(5):870-878			
	BJ	McDonald, T., et al., "A minK-HERG complex regulates the cardiac potassium current <i>I_K</i> ", <i>Nature</i> July 17, 1997; 388:289-292			
	BK	Roden, D.M., et al., "Multiple Mechanisms in the Long-QT Syndrome", <i>Circulation</i> 1996; 94(8):1996-2012			
	CA	Roden, D.M., et al., "Recent Advances in Understanding the Molecular Mechanisms of the Long QT Syndrome", <i>J. Cardiovasc. Electrophysiol.</i> Nov. 1995; 6(11):1023-1031			
	CB	Sanguinetti, M.C., et al., "A Mechanistic Link between an Inherited and an Acquired Cardiac Arrhythmia: <i>HERG</i> Encodes the <i>I_K</i> Potassium Channel", <i>Cell</i> April 21, 1995; 81:299-307			
	CC	Satter, C., et al., "Multiple different missense mutations in the pore region of <i>HERG</i> in patients with long QT syndrome", <i>Hum. Genet.</i> 1998; 102:265-272			
	CD	Satter, C., et al., "Novel Missense Mutation in the Cyclic Nucleotide-Binding Domain of <i>HERG</i> Causes Long QT Syndrome", <i>American Journal of Medical Genetics</i> 1996; 65:27-35			
	CE	Schönherr, R., et al., "Molecular determinants for activation and inactivation of <i>HERG</i> , a human inward rectifier potassium channel", <i>Journal of Physiology</i> 1996; 493.3:635-642			
	CF	Schulze-Bahr, E., et al., "Autosomal recessive long-QT syndrome (Jervell Lange-Nielsen syndrome) is genetically heterogeneous", <i>Hum. Genet.</i> 1997; 100:573-576			
	CG	Schwartz, P., et al., "Long QT Syndrome Patients With Mutations of the <i>SCN5A</i> and <i>HERG</i> Genes Have Differential Responses to Na ⁺ Channel Blockade and to Increases in Heart Rate", <i>Circulation</i> Dec. 15, 1995; 92(12):3381-3386			
	CH	Splawski, I., et al., "Genomic Structure of Three Long QT Syndrome Genes: <i>KVLQT1</i> , <i>HERG</i> and <i>KCNE1</i> ", <i>Genomics</i> 1998; 51:86-97			
	CI	Tanaka, T., et al., "Four Novel <i>KVLQT1</i> and Four Novel <i>HERG</i> Mutations in Familial Long-QT Syndrome", <i>Circulation</i> Feb. 4, 1997; 95(3):565-567			
	CJ	Trudeau, M., et al., " <i>HERG</i> , a Human Inward Rectifier in the Voltage-Gated Potassium Channel Family", <i>Science</i> July 7, 1995; 269:92-95, 1087			
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CR	CK	Vincent, G.M. MD, "The Molecular Genetics of The Long QT Syndrome: Genes Causing Fainting and Sudden Death", <i>Annu. Rev. Med.</i> 1998; 49:263-74			
	CL	van den Berg, M., et al., "The long QT syndrome: a novel missense mutation in the S6 region of the KVLQT1 gene", <i>Hum. Genet.</i> 1997; 100:356-361			
	DA	Wang, Q., et al., "Genetics, molecular mechanisms and management of long QT syndrome", <i>Ann. Med.</i> 1998; 30:58-65			
	DB	Wang, Q., et al., "The molecular basis of long QT syndrome and prospects for therapy", <i>Mol. Med. Today</i> Sept. 1998; 4(9):382-388			
	DC	Wang, Q., et al., "Molecular genetics of long QT syndrome from genes to patients", <i>Curr. Opin. Cardiol.</i> 1997; 12:310-320			
	DE	Warmke, J.W. et al., "A family of potassium channel genes related to <i>eag</i> in <i>Drosophila</i> and mammals" <i>Proc. Natl. Acad. Sci. USA</i> 91:3439-3442 (1994)			
	DF	Wattanasirichaigoon, D. and Beggs, A.H., "Molecular genetics of long-QT syndrome", <i>Curr. Opin. Pediatr.</i> 1998; 10:628-634			
	DG	Zareba, W., et al., "Influence of the Genotype on the Clinical Course of the Long-QT Syndrome", <i>N. Eng. J. Med.</i> Oct. 1998; 339(14):960-965			
	DH	Zhou, Z., et al., "HERG Channel Dysfunction in Human Long QT Syndrome", <i>J. Biol. Chem.</i> Aug. 14, 1998; 273(33):21061-21066			
	DI	Zou, A., et al., "A mutation in the pore region of HERG K ⁺ channels expressed in <i>Xenopus</i> oocytes reduces rectification by shifting the voltage dependence of inactivation", <i>Journal of Physiology</i> , 1998; 509.1:129-137			
	DJ	OMIM ENTRY 152427 - LONG QT SYNDROME, TYPE 2; LQT2 7pp. <i>No date</i>			
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